

REMARKS/ARGUMENTS

In this Amendment, Applicant amends claim 1 to recite, inter alia, “of a public-key cryptographic system” and “used in the cryptographic system”; claim 7 to recite, inter alia, “of a public-key cryptographic system”; claim 16 to recite, inter alia, “in a public-key cryptographic system”, “using first and second full adder units”, and “using the second full adder unit”; and claim 17 to recite, inter alia, “of a public-key cryptographic system” to better define the claimed invention.

Applicant also adds new claims 18-22. Additionally, Applicant amends the specification and makes other amendments to claims 1-4, 6, 7, and 11-17 to improve clarity. No new matter is introduced.

Prior to entry of the Amendment, claims 1-17 were pending in the application. After entry of the Amendment, claims 1-22 are pending in the application.

In the Office Action, the Examiner provisionally rejected claim 16 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 56 of copending U.S. patent application No. 10/736,832 (“the ’832 application”); rejected claims 1-17 under 35 U.S.C. § 101; and rejected claim 16 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,973,470 B2 to Takahashi et al. (“Takahashi”).

The Examiner also stated that claims 1-15 and 17 would be allowable if rewritten or amended to overcome the rejection under 35 U.S.C. § 101.

Allowable Subject Matter

Applicant gratefully acknowledges the Examiner’s statement that claims 1-15 and 17 would be allowable.

Provisional Rejection

Based on a check of the Patent Application Information Retrieval ("PAIR") system on June 7, 2007, no claims have been allowed in the '832 application (nor has the '832 application been examined on the merits). As a result, Applicant requests that the Examiner hold in abeyance the provisionally rejection for the present application until a Notice of Allowance is mailed for the '832 application.

Rejection Under 35 U.S.C. § 101

As discussed above, Applicant amends claim 1 to recite, inter alia, "of a public-key cryptographic system" and "used in the cryptographic system"; claim 7 to recite, inter alia, "of a public-key cryptographic system"; claim 16 to recite, inter alia, "in a public-key cryptographic system"; and claim 17 to recite, inter alia, "of a public-key cryptographic system" to better define the claimed invention. Applicant submits that these amendments obviate the Examiner's rejection under 35 U.S.C. § 101 and requests that the Examiner withdraw the associated rejection.

Rejection Under 35 U.S.C. § 102(e)

As discussed above, Applicant amends claim 16 to recite, inter alia, "using first and second full adder units" and "using the second full adder unit" to better define the claimed invention. Applicant submits that this amendment obviates the Examiner's rejection under 35 U.S.C. § 102(e) and requests that the Examiner withdraw the associated rejection.

New Claims 18-22

Applicant submits that new claim 18 is patentable for reasons similar to claim 1. In addition, Applicant submits that new claims 19-22 are patentable at least for the same reason that claim 18 is patentable, from which they directly depend.

Request for Reconsideration and Allowance

Accordingly, in view of the above amendments and remarks, reconsideration of the rejections and allowance of each of claims 1-22 in connection with the present application is earnestly solicited.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

If necessary, the Director of the U.S. Patent and Trademark Office is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; in particular, extension of time fees.

Respectfully submitted,

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By

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